

# Zirconium(IV) trifluoroacetylacetonate

<b>Other names:</b>	Trifluoroacetylacetone zirconium salt Zirconium trifluoroacetylacetonate tetrakis(1,1,1-trifluoro-2,4-pentanedionato)zirconium(IV)
<b>Inchi:</b>	InChI=1S/4C5H5F3O2.Zr/c4*1-3(9)2-4(10)5(6,7)8;/h4*2,9H,1H3;q;;;+4/p-4/b3-2+;3*3-2-
<b>InchiKey:</b>	QQZQWHIKBKAPMGX-HMVMWNMDSA-J
<b>Formula:</b>	C <sub>20</sub> H <sub>16</sub> F <sub>12</sub> O <sub>8</sub> Zr
<b>SMILES:</b>	CC(=CC(=O)C(F)(F)F)O[Zr](OC(C)=CC(=O)C(F)(F)F)(OC(C)=CC(=O)C(F)(F)F)OC(C)=CC(=O)C(F)(F)F)OC(C)=CC(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	703.54
<b>CAS:</b>	17499-68-2

## Physical Properties

Property code	Value	Unit	Source
hsub	118.70 ± 3.10	kJ/mol	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	94.00	kJ/mol	388.00	NIST Webbook
hsubt	133.60 ± 2.00	kJ/mol	383.00	NIST Webbook
hsubt	126.40 ± 1.70	kJ/mol	410.50	NIST Webbook
hsubt	119.20 ± 1.70	kJ/mol	410.50	NIST Webbook

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C17499682&Units=SI>

## Legend

**hsub:** Enthalpy of sublimation at standard conditions

**hsubt:** Enthalpy of sublimation at a given temperature

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